

# TTT: Automation

Within this page of **TTT** (Tutorials, Tips and Tricks) you may find some useful articles related with automation, including a vast collection of tutorials for all sorts of frameworks (e.g. Cucumber, JUnit, TestNG, etc), in all sort of languages (e.g. Java, C, C#, Ruby, Perl, Python, etc) and all types of testing (e.g. web, cloud, mobile).

- [Examples by programming language](#)
- [Examples by testing framework report](#)
- [Examples by target environment](#)

## Examples by programming language

blocked URL	C#	C/C++	Js	blocked URL	blocked URL	blocked URL	blocked URL
<ul style="list-style-type: none"><li>• <a href="#">Load Testing using Gatling and JUnit in Scala</a></li><li>• <a href="#">Testing Android Applications using Appium and JUnit in Java</a></li><li>• <a href="#">Testing iOS applications using Appium and JUnit in Java</a></li><li>• <a href="#">Testing using Cucumber in Java</a></li><li>• <a href="#">Testing using Cucumber in Ruby / JRuby</a></li><li>• <a href="#">Testing using Robot framework and xUnit reports</a></li><li>• <a href="#">Testing using Robot Framework integration in Python or Java</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Testing using NUnit in C#</a></li><li>• <a href="#">Testing using Selenium (WebDriver) and NUnit in C#</a></li><li>• <a href="#">Testing using SpecFlow and Cucumber Scenarios in C#</a></li><li>• <a href="#">Testing using Specflow and NUnit in C#</a></li><li>• <a href="#">Testing using UFT Pro (LeanFT) and NUnit in C#</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Testing using Google Test in C++</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">E2E testing web apps locally or in the cloud (Sauce Labs) using Nightwatch.js and WebDriver in Javascript</a></li><li>• <a href="#">E2E web testing locally, remote or in the cloud (BrowserStack, SauceLabs) using TestCafé in JavaScript</a></li><li>• <a href="#">Headless testing web applications using Jest and Puppeteer in JavaScript</a></li><li>• <a href="#">Testing mobile apps in the cloud (Sauce Labs) using Webdriver and Mocha in Javascript</a></li><li>• <a href="#">Testing using CasperJS and PhantomJS in JavaScript</a></li><li>• <a href="#">Testing using Jasmine (Node.js) in JavaScript</a></li><li>• <a href="#">Testing using Mocha in JavaScript</a></li><li>• <a href="#">Testing web and mobile applications using CodeceptJS in JavaScript</a></li><li>• <a href="#">Visual Testing using PhantomCSS in JavaScript</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Testing mobile apps in the cloud (BrowserStack) using Appium and Cucumber in Ruby</a></li><li>• <a href="#">Testing using Cucumber in Ruby / JRuby</a></li><li>• <a href="#">Testing using MiniTest in Ruby</a></li><li>• <a href="#">Testing using Selenium and RSpec in Ruby</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Testing using PHPUnit in PHP</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Testing using Behave in Python</a></li><li>• <a href="#">Testing using pytest in Python</a></li><li>• <a href="#">Testing using Robot framework and xUnit reports</a></li><li>• <a href="#">Testing using Robot Framework integration in Python or Java</a></li><li>• <a href="#">Testing using Robot framework integration, in Python or Java</a></li><li>• <a href="#">Testing using the Robot Framework and xUnit reports</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Testing using Cucumber in Perl</a></li></ul>

<ul style="list-style-type: none"> <li>• Testin g using Robot frame work integra tion, in Pytho n or Java</li> <li>• Testin g using Seleni um and JUnit in Java</li> <li>• Testin g using Sereni ty and JUnit in Java</li> <li>• Testin g using TestN G in Java</li> <li>• Testin g using the Robot Frame work and xUnit reports</li> <li>• Testin g using UFT Pro (Lean FT) and JUnit in Java</li> <li>• Testin g Windo ws Applic ations using Appiu m and JUnit in Java</li> </ul>						
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Examples by testing framework report

blocked URL	TestNG		blocked URL	 Robot framework
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<ul style="list-style-type: none"> <li>E2E web testing locally, remote or in the cloud (BrowserStack, SauceLabs) using TestCafé in JavaScript</li> <li>Headless testing web applications using Jest and Puppeteer in JavaScript</li> <li>Integration with Bamboo</li> <li>Integration with CircleCI</li> <li>Integration with GitLab</li> <li>Integration with Jenkins</li> <li>Integration with TeamCity (legacy)</li> <li>Load Testing using Gatling and JUnit in Scala</li> <li>Taking advantage of JUnit XML reports</li> <li>Testing Android Applications using Appium and JUnit in Java</li> <li>Testing Angular apps using Protractor in JavaScript</li> <li>Testing APIs using Katalon Studio</li> <li>Testing iOS applications using Appium and JUnit in Java</li> <li>Testing using CasperJS and PhantomJS in JavaScript</li> <li>Testing using FitNesse and JUnit</li> <li>Testing using Google Test in C++</li> <li>Testing using Jasmine (Node.js) in JavaScript</li> <li>Testing using MiniTest in Ruby</li> <li>Testing using Mocha in JavaScript</li> <li>Testing using PHPUnit in PHP</li> <li>Testing using pytest in Python</li> <li>Testing using Robot framework and xUnit reports</li> <li>Testing using Selenium and JUnit in Java</li> <li>Testing using Selenium and RSpec in Ruby</li> <li>Testing using Serenity and JUnit in Java</li> <li>Testing using SoapUI / ReadyAPI</li> <li>Testing using the Robot Framework and xUnit reports</li> <li>Testing using UFT Pro (LeanFT) and JUnit in Java</li> <li>Testing web and mobile applications using CodeceptJS in JavaScript</li> <li>Testing Windows Applications using Appium and JUnit in Java</li> </ul>	<ul style="list-style-type: none"> <li>Taking advantage of TestNG XML reports</li> <li>Testing using TestNG in Java</li> <li>Testing web apps in the cloud (BrowserStack) using Selenium and TestNG in Java</li> <li>Testing web apps in the cloud (Sauce Labs) using Selenium and TestNG in Java</li> </ul>	<ul style="list-style-type: none"> <li>Taking advantage of NUnit XML reports</li> <li>Testing using NUnit in C#</li> <li>Testing using Selenium (WebDriver) and NUnit in C#</li> <li>Testing using Specflow and NUnit in C#</li> <li>Testing using UFT Pro (LeanFT) and NUnit in C#</li> </ul>	<ul style="list-style-type: none"> <li>Integration with Bamboo</li> <li>Integration with GitLab</li> <li>Integration with Jenkins</li> <li>Integration with TeamCity (legacy)</li> <li>Testing mobile apps in the cloud (BrowserStack) using Appium and Cucumber in Ruby</li> <li>Testing using Calabash and Xamarin Test Cloud in Ruby</li> <li>Testing using Cucumber in Java</li> <li>Testing using Cucumber in Perl</li> <li>Testing using Cucumber in Ruby/JRuby</li> <li>Testing using SpecFlow and Cucumber Scenarios in C#</li> </ul>	<ul style="list-style-type: none"> <li>Taking advantage of Robot XML reports</li> <li>Testing using Robot framework and xUnit reports</li> <li>Testing using Robot Framework integration in Python or Java</li> <li>Testing using Robot framework integration, in Python or Java</li> <li>Testing using the Robot Framework and xUnit reports</li> </ul>
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## Examples by target environment

Browser/Web testing	Mobile Testing	Testing in the Cloud
<ul style="list-style-type: none"> <li>E2E testing web apps locally or in the cloud (Sauce Labs) using Nighthwatch.js and WebDriver in Javascript</li> <li>E2E web testing locally, remote or in the cloud (BrowserStack, SauceLabs) using TestCafé in JavaScript</li> <li>Headless testing web applications using Jest and Puppeteer in JavaScript</li> <li>Testing APIs using Katalon Studio</li> <li>Testing mobile apps in the cloud (Sauce Labs) using Webdriver and Mocha in Javascript</li> <li>Testing using CasperJS and PhantomJS in JavaScript</li> <li>Testing using Selenium (WebDriver) and NUnit in C#</li> <li>Testing using Selenium and JUnit in Java</li> <li>Testing using Selenium and RSpec in Ruby</li> <li>Testing using Serenity and JUnit in Java</li> <li>Testing web apps in the cloud (BrowserStack) using Selenium and TestNG in Java</li> <li>Testing web apps in the cloud (Sauce Labs) using Selenium and TestNG in Java</li> <li>Visual Testing using PhantomCSS in JavaScript</li> </ul>	<ul style="list-style-type: none"> <li>Testing mobile apps in the cloud (BrowserStack) using Appium and Cucumber in Ruby</li> <li>Testing mobile apps in the cloud (Sauce Labs) using Webdriver and Mocha in Javascript</li> <li>Testing using Calabash and Xamarin Test Cloud in Ruby</li> <li>Testing web and mobile applications using CodeceptJS in JavaScript</li> </ul>	<ul style="list-style-type: none"> <li>E2E testing web apps locally or in the cloud (Sauce Labs) using Nighthwatch.js and WebDriver in Javascript</li> <li>Integration with GitLab</li> <li>Testing mobile apps in the cloud (BrowserStack) using Appium and Cucumber in Ruby</li> <li>Testing mobile apps in the cloud (Sauce Labs) using Webdriver and Mocha in Javascript</li> <li>Testing using Calabash and Xamarin Test Cloud in Ruby</li> <li>Testing web apps in the cloud (BrowserStack) using Selenium and TestNG in Java</li> <li>Testing web apps in the cloud (Sauce Labs) using Selenium and TestNG in Java</li> </ul>